

**To:** Jonsson, Jonas (ARC-TI)[SGT, INC][jonas.jonsson@nasa.gov]  
**Cc:** Gullett, Brian[Gullett.Brian@epa.gov]; Aurell, Johanna[Aurell.Johanna@epa.gov]  
**From:** Chirayath, Ved (ARC-SGE)  
**Sent:** Tue 5/30/2017 6:16:15 PM  
**Subject:** Re: Radford and McAlester figures  
[smime.p7s](#)

Thanks Jonas!

Ved Chirayath, Ph.D.  
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On May 27, 2017, at 05:53 700000PDT, Jonsson, Jonas (ARC-TI)[SGT, INC]  
<[jonas.jonsson@nasa.gov](mailto:jonas.jonsson@nasa.gov)> wrote:

Hi Brian,

I've processed the data and attached an updated ppt with the track for Radford burns 1 & 2, which seems to not be the same flights as I plotted earlier (slide #3).

Attached are also KMZ files for the flights (one flight track with the CO2, and one ground trace). I also included the flight trace for Radford Burn #3, but that one looks a bit suspicious. It seems like the GPS data cut out at some locations and that the multi-rotor went off range for quite a bit, or is there something funky with the instrument GPS?

Hope this helps. If you have data for any other flights you'd like to see I'd be happy to help plot it upon my return.

Ha de gött,  
Jonas

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On May 25, 2017, at 7:26 AM, Gullett, Brian <[Gullett.Brian@epa.gov](mailto:Gullett.Brian@epa.gov)> wrote:

**Thanks, Johanna. I hope Jonas can use this to create those two figures before he goes to the North Pole!**

**Brian**

**From:** Aurell, Johanna  
**Sent:** Thursday, May 25, 2017 10:24 AM  
**To:** Gullett, Brian <[Gullett.Brian@epa.gov](mailto:Gullett.Brian@epa.gov)>  
**Cc:** Jonsson, Jonas (ARC-TI)[Millennium Engineering & Integration Co.] <[jonas.jonsson@nasa.gov](mailto:jonas.jonsson@nasa.gov)>  
**Subject:** RE: Radford and McAlester figures

All,

I have attached the McAlester data from Feb 13, which is the same data I sent before. I also attached an updated version of the Radford October 6 data, it now includes altitude, latitude and altitude from the Kolibri.

Johanna

**From:** Gullett, Brian  
**Sent:** Thursday, May 25, 2017 9:22 AM  
**To:** Aurell, Johanna <[Aurell.Johanna@epa.gov](mailto:Aurell.Johanna@epa.gov)>  
**Cc:** Jonsson, Jonas (ARC-TI)[Millennium Engineering & Integration Co.] <[jonas.jonsson@nasa.gov](mailto:jonas.jonsson@nasa.gov)>  
**Subject:** Radford and McAlester figures

Johanna,

At this point I'm too confused about who is using what file to be certain. So, perhaps you can find the Kolibri's GPS, altitude, time, and CO2 data, send it to Jonas and he can start from the beginning on these two figures? This figures are important – I think without the CO2 color trace the paper is diminished.

I've attached the GPS data from Radford, October 6 to your Radford/Flight Figure folder. This NASA file DJIFlightRecord\_2016-10-06\_[09-47-44].csv has "09-47-44" in the filename. I don't know if this is a time, or what. The file increments time from 0 at 10 hz. I don't see altitude in this file.

Similarly in your McAlester folder find the file DJIFlightRecord\_2017-02-13\_[09-31-51].csv.

If you can't figure out which data file matches up, please email Jonas so that it doesn't

cost any more time.

Thank you!

Brian

<Kolibri Matrice Flight Paths v4.pptx><161006 Radford Burn1n2 CO2 trace.kmz><161006  
Radford Burn3 CO2 trace.kmz><161006 Radford Burn1n2 GND trace.kmz><170213  
McAlester Burn1 GND trace.kmz><170213 McAlester Burn1 CO2 trace.kmz>